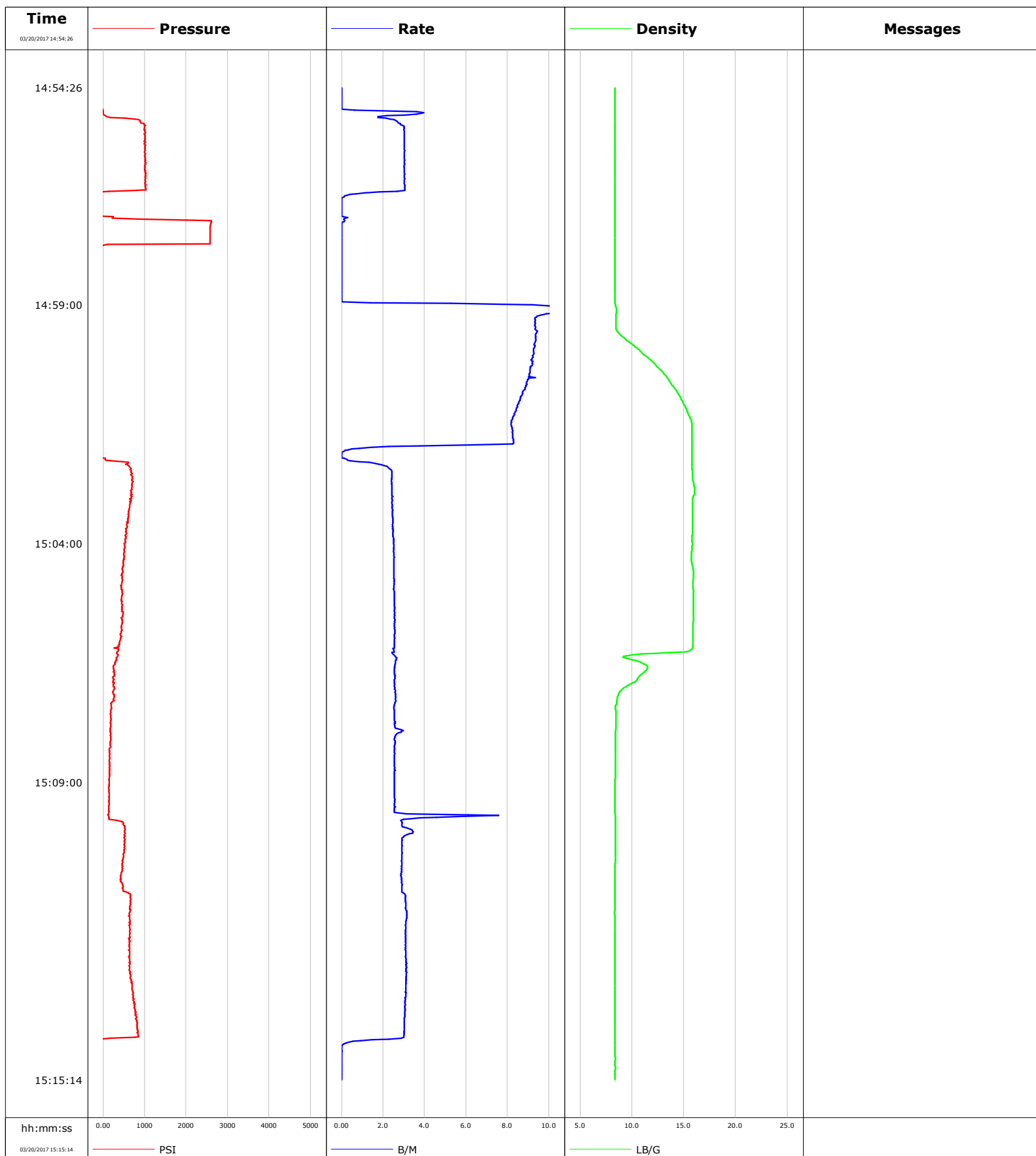


Well Briggs 1-12 A
Field DJ
Engineer Scot Thornton
Country United States

Client Anadarko
SIR No. da6t-00735
Job Type Nio
Job Date 03-20-2017



Cementing Service Report

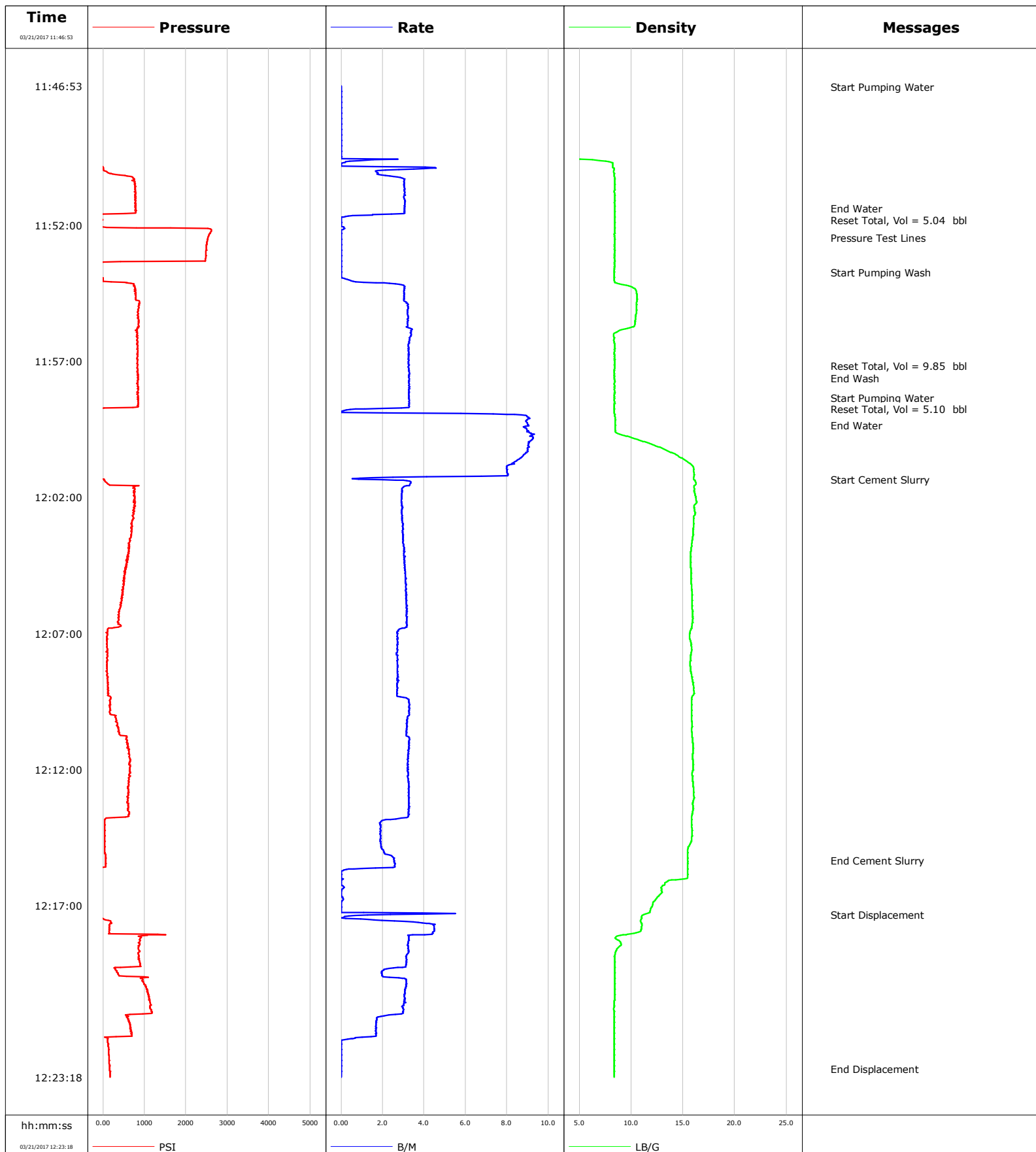
				Customer Anadarko				Job Number da6t-00735			
Well Briggs 1-12 A			Location (legal)			Schlumberger Location			Job Start Mar/20/2017		
Field DJ		Formation Name/Type		Deviation deg		Bit Size in		Well MD ft		Well TVD ft	
County		State/Province Colorado		BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal	
Well Master		API/UWI									
Rig Name		Drilled For N/A		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class Old		Well Type Workover							
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type Nio				T		7220.0		2.4	
										4.7	
										0.0	
										0.0	
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Tubing		Displacement bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl	
										Openhole Vol. bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job			
Lift Pressure psi				Shoe Type				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft				Tool Type			
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth ft	
Cement Head Type				Stage Tool Depth ft				Tail Pipe Size in			
Job Scheduled For Mar/20/2017 13:00		Arrived on Location Mar/20/2017 13:00		Leave Location Mar/20/2017		Collar Type				Tail Pipe Depth ft	
						Collar Depth ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
03/20/2017	14:54:26	-51	0.0	8.38	0.0	Started Acquisition					
03/20/2017	14:58:36	-65	0.0	8.39	5.1						
03/20/2017	15:02:46	686	2.4	15.98	6.2						
03/20/2017	15:06:56	265	2.6	9.95	16.7						
03/20/2017	15:11:06	448	2.9	8.38	28.3						

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.7	N2	Mud	Maximum Rate 4.0	Total Slurry 10.8	Mud 0.0	Spacer 5.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2608	Final -65	Average 590	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl	Displacement 23.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Edgar Chavez			Schlumberger Supervisor Scot Thornton		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		

Well Briggs 1-12A
Field DJ
Engineer Richard White
Country United States

Client Anadarko
SIR No. DA6T-00736
Job Type Plug Abandon
Job Date 03-21-2017



Cementing Service Report

				Customer Anadarko		Job Number DA6T-00736	
Well Briggs 1-12A 1-12A		Location (legal) CWY		Schlumberger Location Cheyenn		Job Start Mar/21/2017	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD 4410.0 ft	Well TVD 4410.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 165 degF	BHCT 165 degF	Pore Press. Gradient lb/gal
Well Master 630386386		API/UWI 51231678					
Rig Name Basic 1652	Drilled For Oil & Gas	Service Via Land	Casing/ Liner				
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class Old	Well Type Other	4410.0	4.5	11.6	N80	BUTT
			0.0	0.0	0.0		
Drilling Fluid Type Other		Max. Density 8.40 lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft
					4410.0	2.4	4.7
					0.0	0.0	0.0
Service Line Cementing		Job Type Plug & Abandon		Perforations/Open Hole			
				Top, ft	Bottom, ft	shot/ft	No. of Shots
							Total Interval
							ft
							Diameter
							in
				Treat Down Tubing	Displacement bbl	Packer Type	Packer Depth ft
				Tubing Vol. bbl	Casing Vol. bbl	Annular Vol. bbl	Openhole Vol. bbl
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure psi				Shoe Type		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft		Tool Type	
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth ft	
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Mar/21/2017		Arrived on Location Mar/21/2017	Leave Location Mar/21/2017	Collar Type		Tail Pipe Depth ft	
				Collar Depth ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume NULL	Message	
03/21/2017	11:46:53	-56	0.0	0.11	10	Started Acquisition	
03/21/2017	11:46:55	-56	0.0	0.11	10	Start Pumping Water	
03/21/2017	11:48:53	-56	0.0	0.11	10		
03/21/2017	11:50:53	782	0.9	8.40	5		
03/21/2017	11:51:23	782	0.9	8.40	5	End Water	
03/21/2017	11:51:41	-60	0.0	8.40	12	Reset Total, Vol = 5.04 bbl	
03/21/2017	11:52:27	2535	0.0	8.40	10	Pressure Test Lines	
03/21/2017	11:52:53	2489	0.0	8.39	10		
03/21/2017	11:53:44	-51	0.0	8.39	10	Start Pumping Wash	
03/21/2017	11:54:53	864	1.0	10.55	5		
03/21/2017	11:56:53	823	1.0	8.40	5		
03/21/2017	11:57:11	832	1.0	8.40	12	Reset Total, Vol = 9.85 bbl	
03/21/2017	11:57:20	837	1.0	8.39	5	End Wash	
03/21/2017	11:58:20	855	1.0	8.39	5	Start Pumping Water	
03/21/2017	11:58:45	-70	0.0	8.39	12	Reset Total, Vol = 5.10 bbl	
03/21/2017	11:58:53	-65	0.0	8.39	10		
03/21/2017	11:59:20	-65	0.0	8.47	10	End Water	
03/21/2017	12:00:53	-60	0.0	16.00	10		
03/21/2017	12:01:20	27	0.0	16.05	5	Start Cement Slurry	
03/21/2017	12:02:53	695	0.9	16.01	5		
03/21/2017	12:04:53	512	0.9	15.79	5		

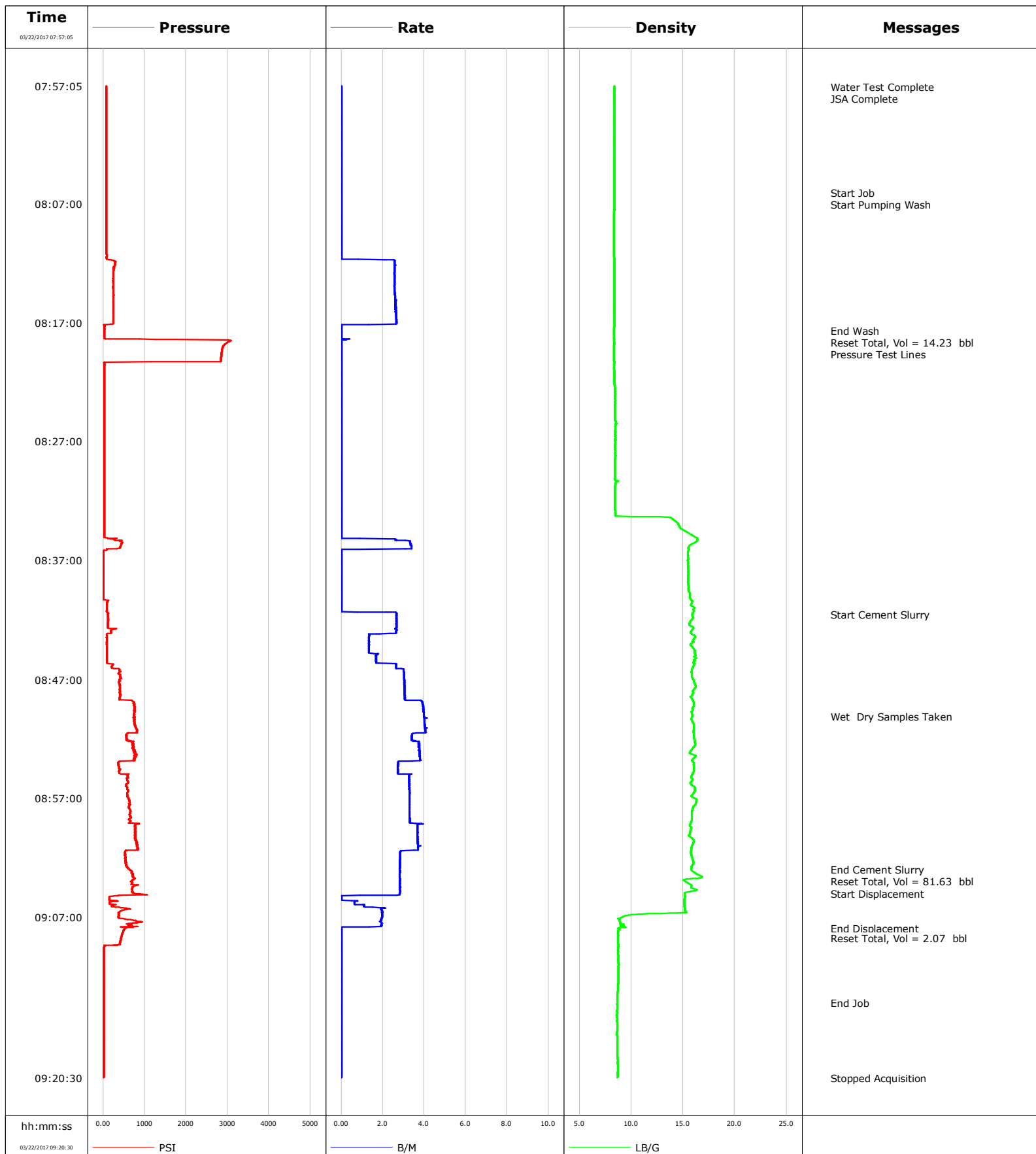
Well			Field		Job Start	Customer		Job Number
Briggs 1-12A 1-12A			DJ		Mar/21/2017	Anadarko		DA6T-00736
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume NULL	Message		
03/21/2017	12:08:53	123	0.8	15.99	5			
03/21/2017	12:10:53	558	1.0	15.92	5			
03/21/2017	12:12:53	608	1.0	16.04	5			
03/21/2017	12:14:53	40	0.5	15.49	5			
03/21/2017	12:15:20	68	0.5	15.47	5	End Cement Slurry		
03/21/2017	12:16:53	-56	0.0	12.14	10			
03/21/2017	12:17:20	-56	0.0	11.26	10	Start Displacement		
03/21/2017	12:18:53	855	0.9	8.40	5			
03/21/2017	12:20:53	1171	0.9	8.36	5			
03/21/2017	12:22:53	159	0.0	8.38	10			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.3	N2	Mud	Maximum Rate 9.3	Total Slurry 74.8	Mud 0.0	Spacer 0.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2617	Final 173	Average 620	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 0.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Edgar Chavez			Schlumberger Supervisor Richard White			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>	
						-	-	

Well BRIGGS 1-12A
Field DJ
Engineer Wayne Silvester
Country United States

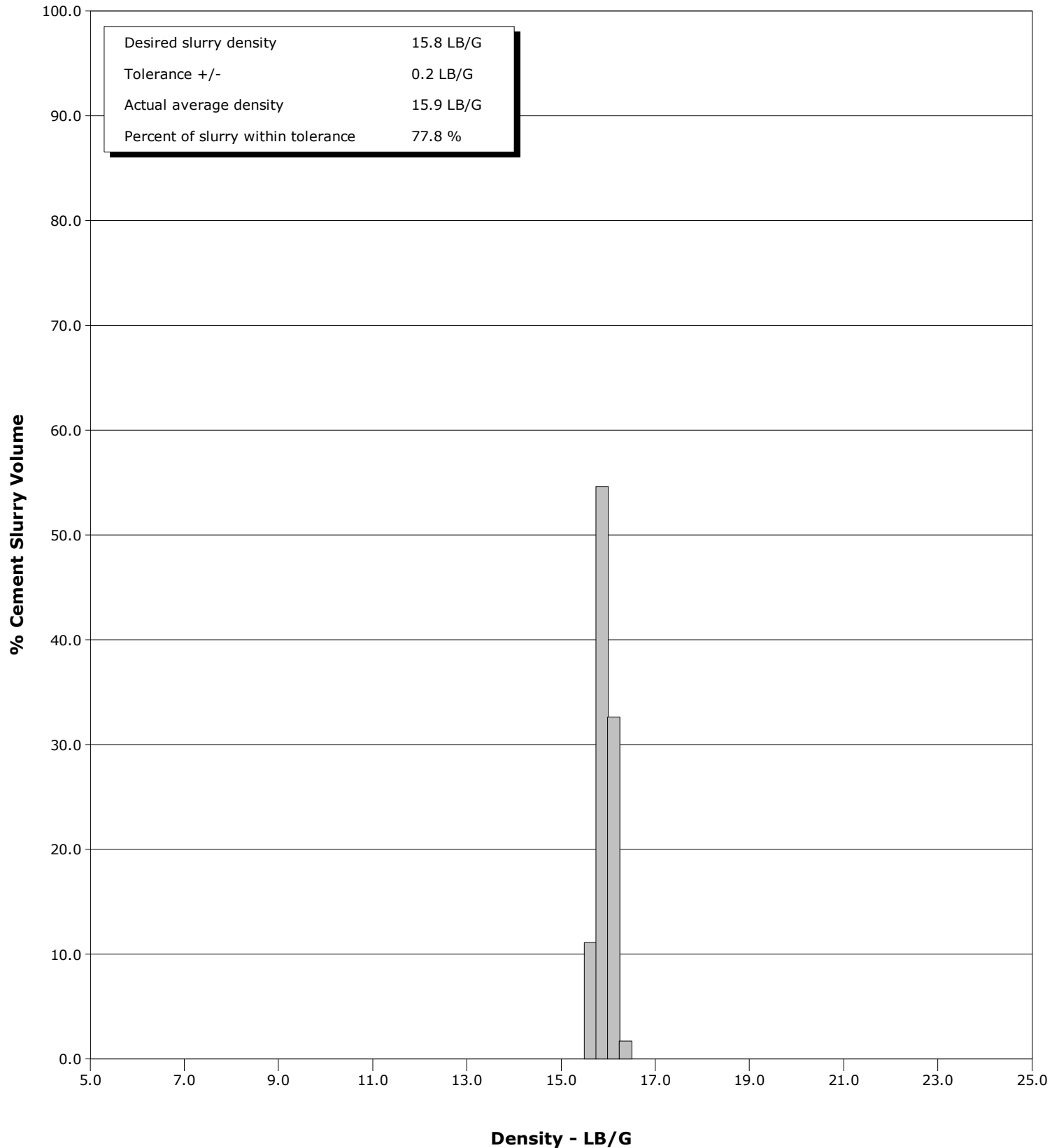
Client ANADARKO
SIR No. DA6T-00737
Job Type Stub Plug
Job Date 03-22-2017



Well BRIGGS 1-12A
Field DJ
Engineer Wayne Silvester
Country United States

Client ANADARKO
SIR No. DA6T-00737
Job Type Stub Plug
Job Date 03-22-2017

Cement Slurry - 03/22/2017 08:41:31 to 03/22/2017 09:02:59



Cementing Service Report

				Customer ANADARKO			Job Number DA6T-00737	
Well BRIGGS 1-12A			Location (legal) 217304		Schlumberger Location Cheyenne		Job Start Mar/22/2017	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD 1040.0 ft	Well TVD 1040.0 ft	
County Weld		State/Province Colorado		BHP psi	BHST 90 degF	BHCT 80 degF	Pore Press. Gradient lb/gal	
Well Master 0630386386		API/UWI 512316780						
Rig Name	Drilled For Oil & Gas	Service Via Land		Casing/ Liner				
				Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class Old	Well Type Workover		1040.0	4.5	11.6	N/A	N/A
				402.0	8.6	24.0	N/A	N/A
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe				
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade Thread
Service Line Cementing	Job Type Stub Plug			T	1040.0	2.4	4.7	N/A N/A
					0.0	0.0	0.0	
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole				
				Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft
Service Instructions Stub Plug = 395 sks 1.16 ft3/sk 5.115 gps = 81.6 bbls Est Toc= 100 ft CW7 15 bbls CMT 81.6 bbls Displace 1 bbls				ft	ft			
				ft	ft			Diameter in
				ft	ft			
				Treat Down Tubing	Displacement 2.0 bbl	Packer Type	Packer Depth ft	
				Tubing Vol. 3.0 bbl	Casing Vol. bbl	Annular Vol. 50.0 bbl	Openhole Vol. 29.0 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools			Squeeze Job	
Lift Pressure psi				Shoe Type			Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft			Tool Type	
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type			Tool Depth ft	
Cement Head Type				Stage Tool Depth ft			Tail Pipe Size in	
Job Scheduled For Mar/22/2017		Arrived on Location Mar/22/2017		Leave Location Mar/22/2017		Collar Type Tail Pipe Depth ft		
						Collar Depth ft Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	Pressure PSI	Message		
03/22/2017	07:57:05	0.0	8.38	0.0	81	Started Acquisition		
03/22/2017	07:57:08	0.0	8.38	0.0	81	Water Test Complete		
03/22/2017	08:02:06	0.0	8.37	0.0	81			
03/22/2017	08:06:04	0.0	8.36	0.0	81	Start Job		
03/22/2017	08:06:07	0.0	8.36	0.0	81	Start Pumping Wash		
03/22/2017	08:07:07	0.0	8.36	0.0	81			
03/22/2017	08:12:08	2.6	8.37	1.1	292			
03/22/2017	08:17:09	1.3	8.36	14.2	91			
03/22/2017	08:17:40	0.0	8.34	14.2	36	End Wash		
03/22/2017	08:17:41	0.0	8.34	14.2	36	Reset Total, Vol = 14.23 bbl		
03/22/2017	08:19:09	0.0	8.34	14.3	2874	Pressure Test Lines		
03/22/2017	08:22:10	0.0	8.37	14.3	36			
03/22/2017	08:27:11	0.0	8.44	14.3	36			
03/22/2017	08:32:12	0.0	8.41	14.3	36			
03/22/2017	08:37:13	0.0	15.50	17.0	8			
03/22/2017	08:41:31	2.7	15.90	17.5	118	Start Cement Slurry		
03/22/2017	08:42:14	2.7	15.64	19.4	118			
03/22/2017	08:47:15	3.0	16.06	30.1	393			
03/22/2017	08:50:06	4.0	15.88	40.0	741	Wet Dry Samples Taken		
03/22/2017	08:52:16	3.8	16.14	48.3	690			
03/22/2017	08:57:17	3.3	16.25	65.0	626			

Well			Field		Job Start	Customer		Job Number	
BRIGGS 1-12A			DJ		Mar/22/2017	ANADARKO		DA6T-00737	
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	Pressure PSI	Message			
03/22/2017	09:02:59	2.8	15.81	84.0	654	End Cement Slurry			
03/22/2017	09:03:01	2.8	15.79	84.1	645	Reset Total, Vol = 81.63 bbl			
03/22/2017	09:03:03	2.8	15.82	84.2	649	Start Displacement			
03/22/2017	09:07:19	1.9	8.87	92.9	796				
03/22/2017	09:07:57	0.0	8.69	93.9	530	End Displacement			
03/22/2017	09:08:47	0.0	8.71	93.9	429	Reset Total, Vol = 2.07 bbl			
03/22/2017	09:12:20	0.0	8.76	93.9	13				
03/22/2017	09:14:12	0.0	8.67	93.9	17	End Job			
03/22/2017	09:17:21	0.0	8.67	93.9	17				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.9	N2	Mud	Maximum Rate 4.1	Total Slurry 81.6	Mud 0.0	Spacer 15.3	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3080	Final 17	Average 285	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 81.6 bbl		Displacement 2.1 bbl	Mix Water Temp 55 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Edgar Chavez			Schlumberger Supervisor Wayne Silvester			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	